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Fig. 1 (a)

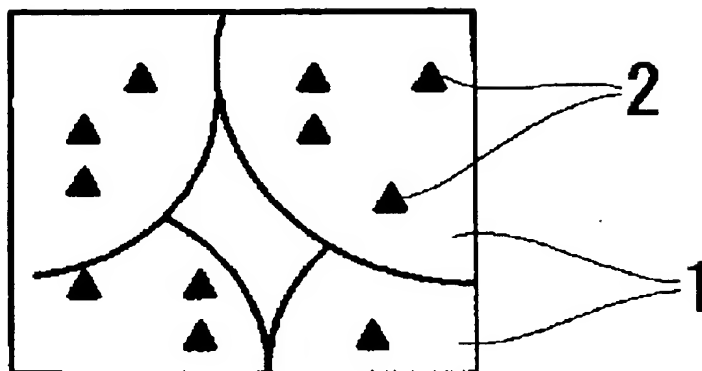


Fig. 1 (b)

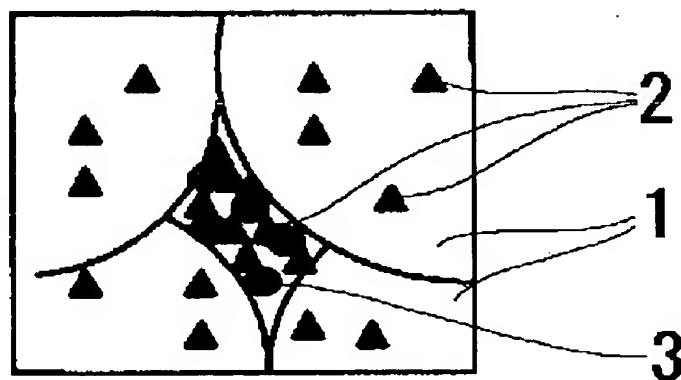
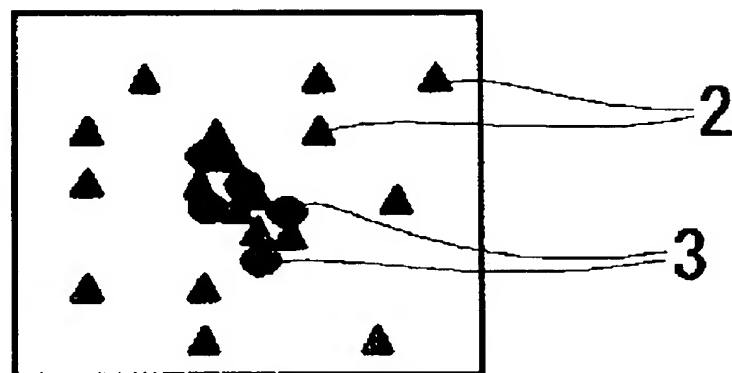


Fig. 1 (c)



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Fig. 2 (a)

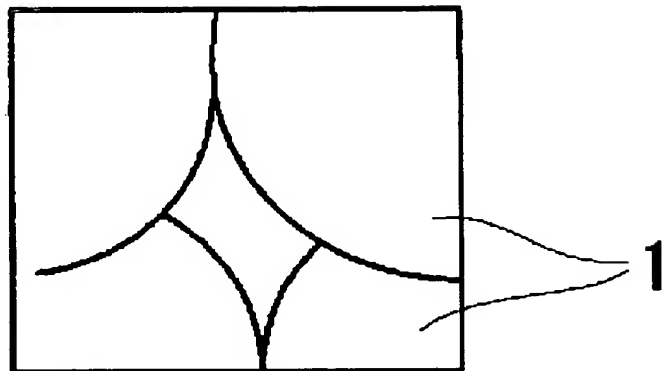


Fig. 2 (b)

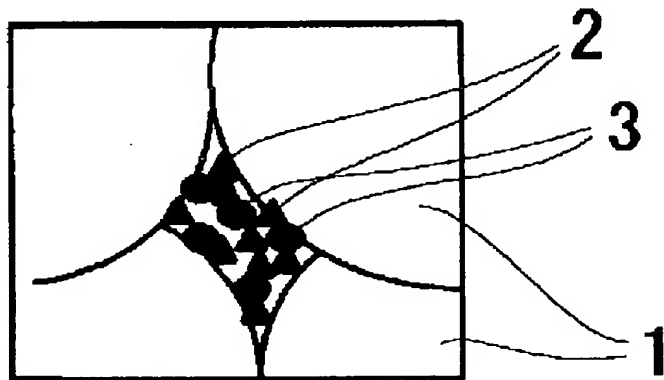
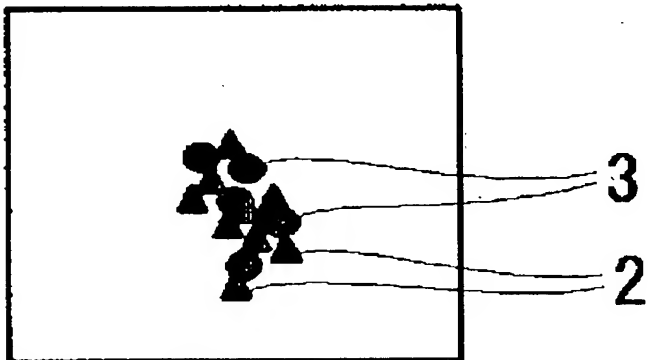


Fig. 2 (c)



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Fig. 3 (a)

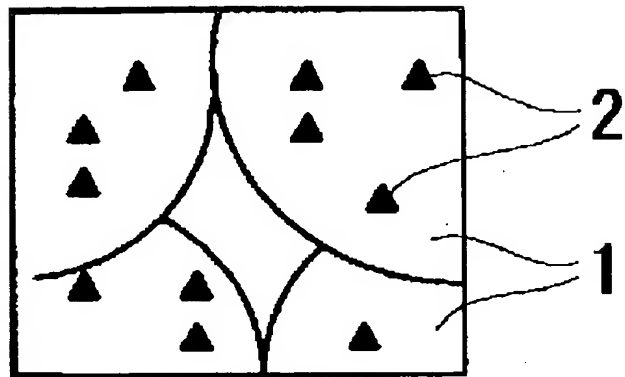


Fig. 3 (b)

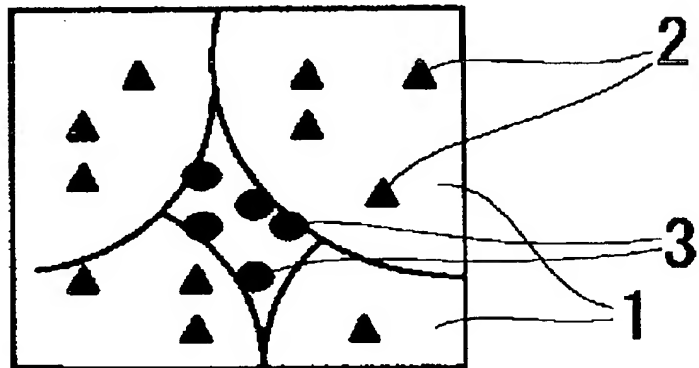
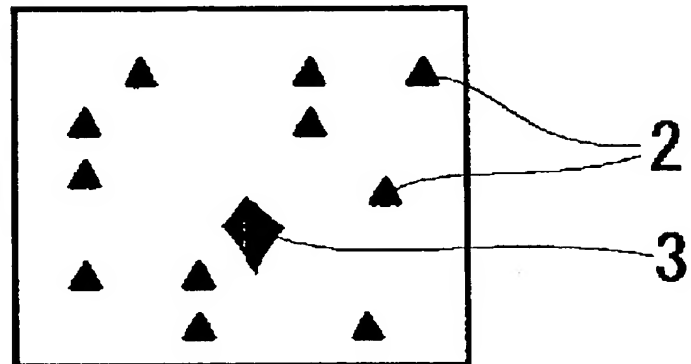
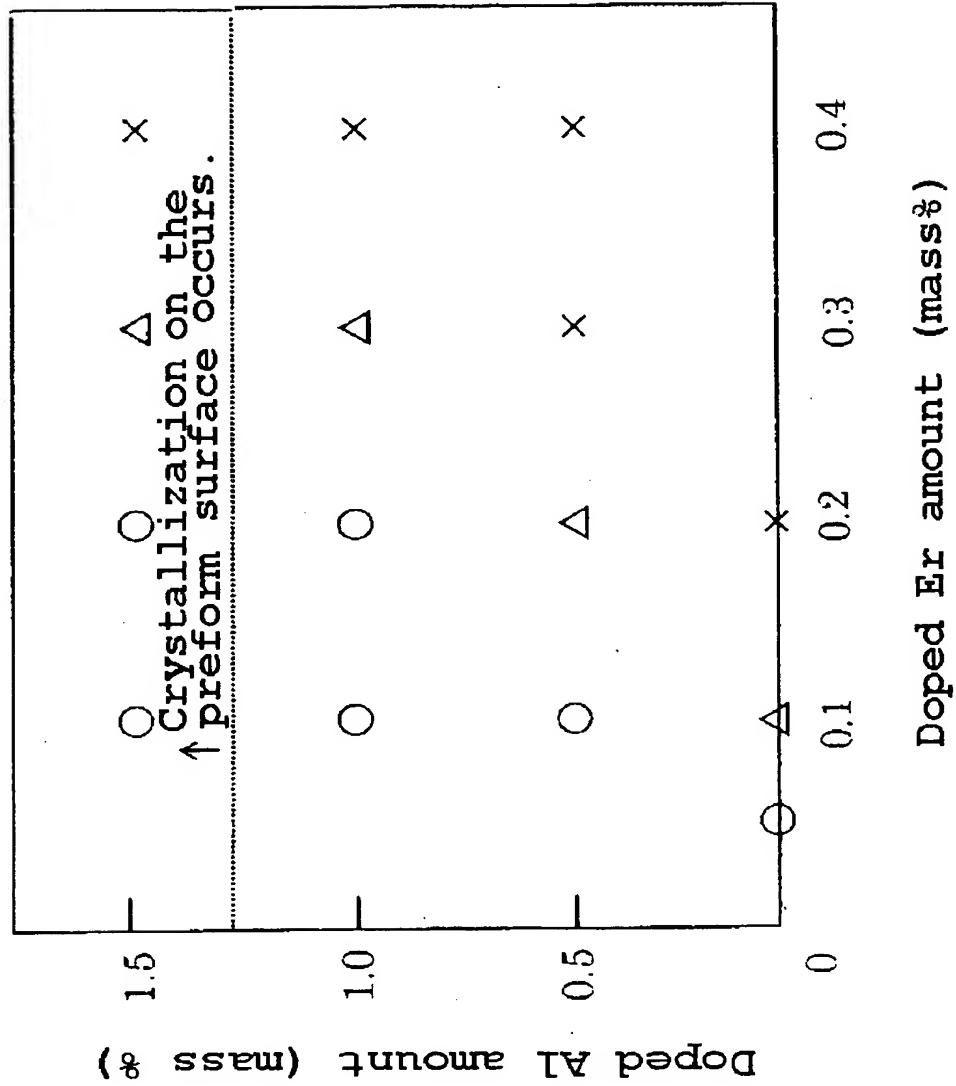


Fig. 3 (c)



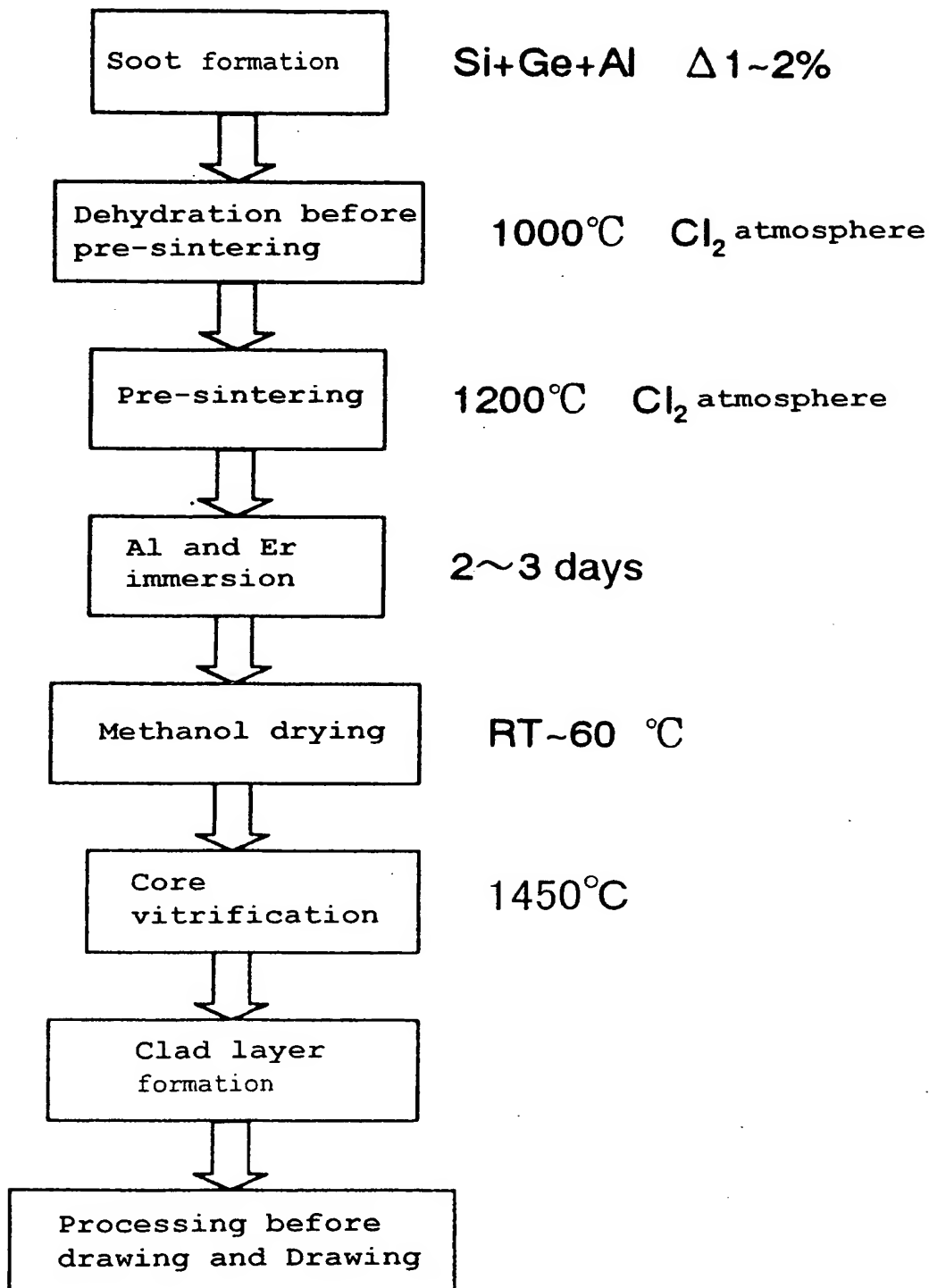
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Fig. 4



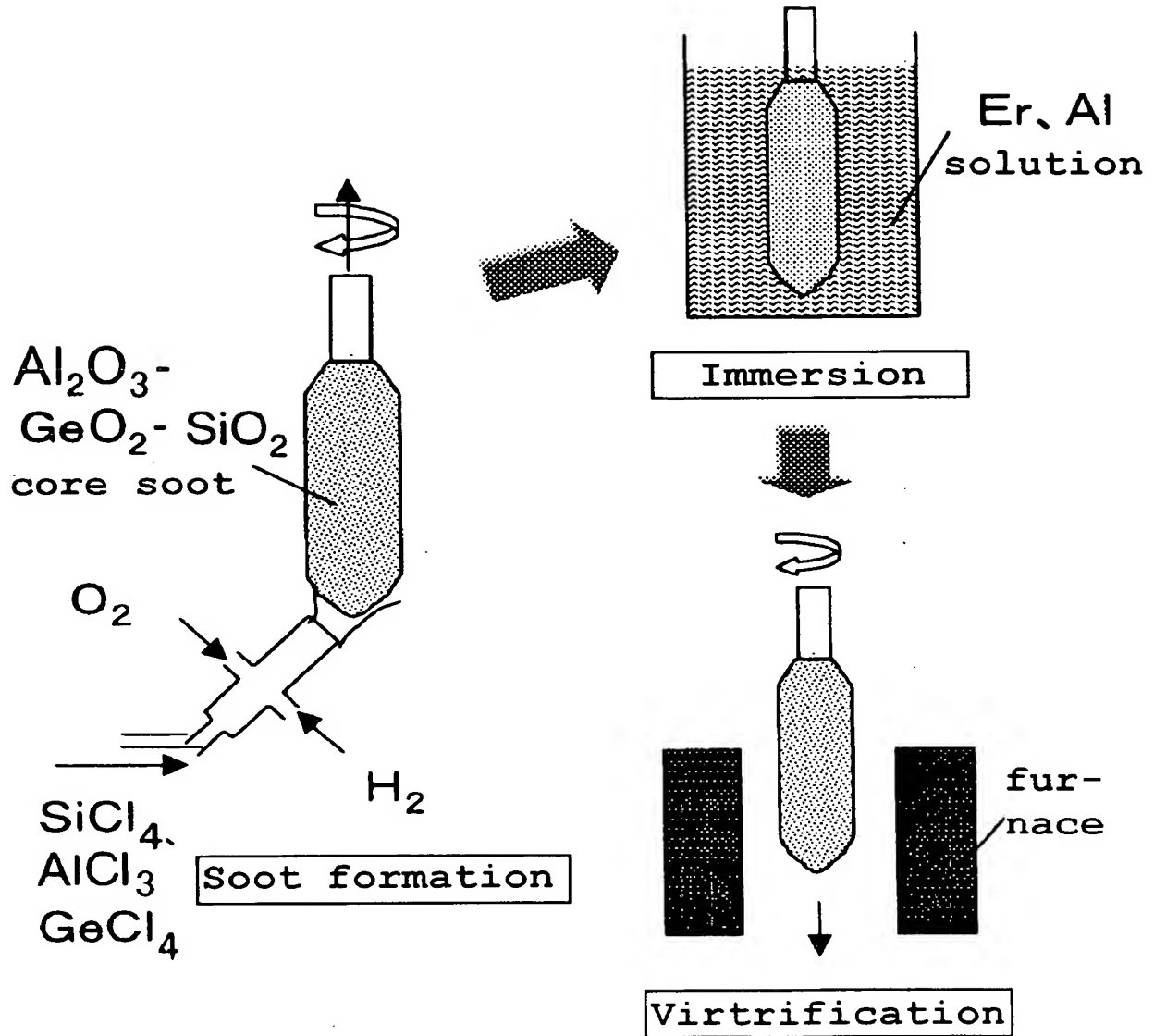
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Fig. 5



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Fig. 6



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Fig. 7

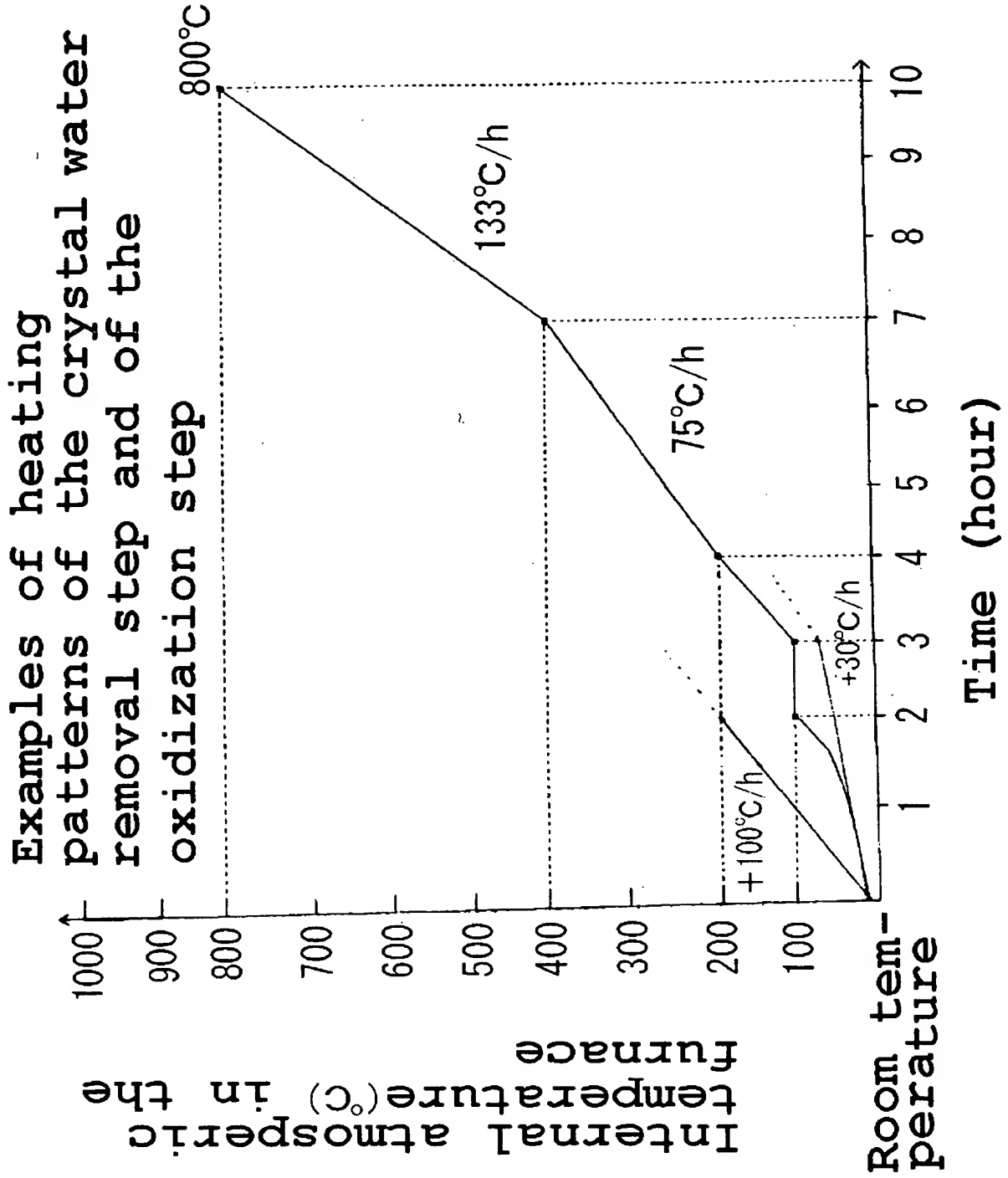
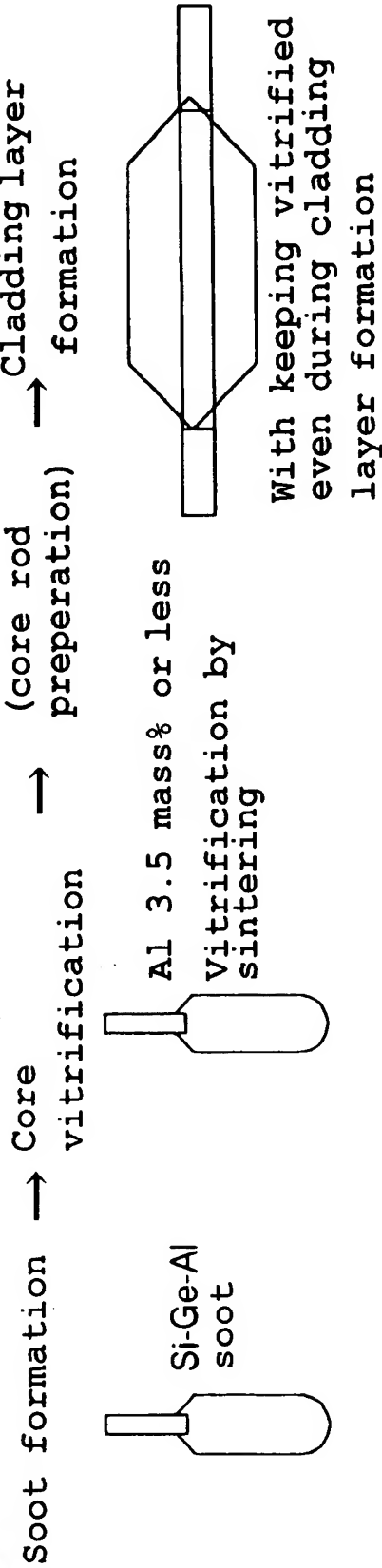


Fig. 8(a)

At low Al concentration (3.5 mass% or less)

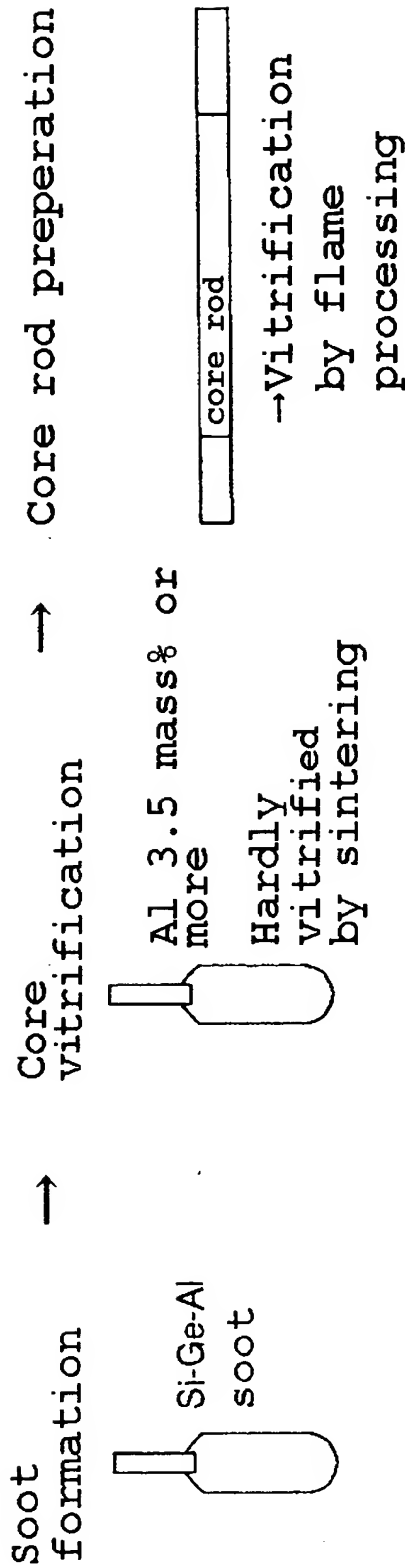


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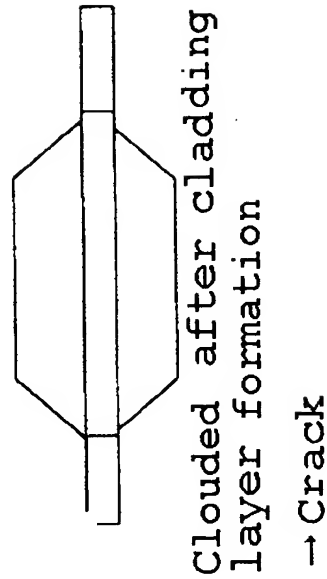
Fig. 8(b)

At high Al concentration (3.5 mass% or more)

Vitrification of core



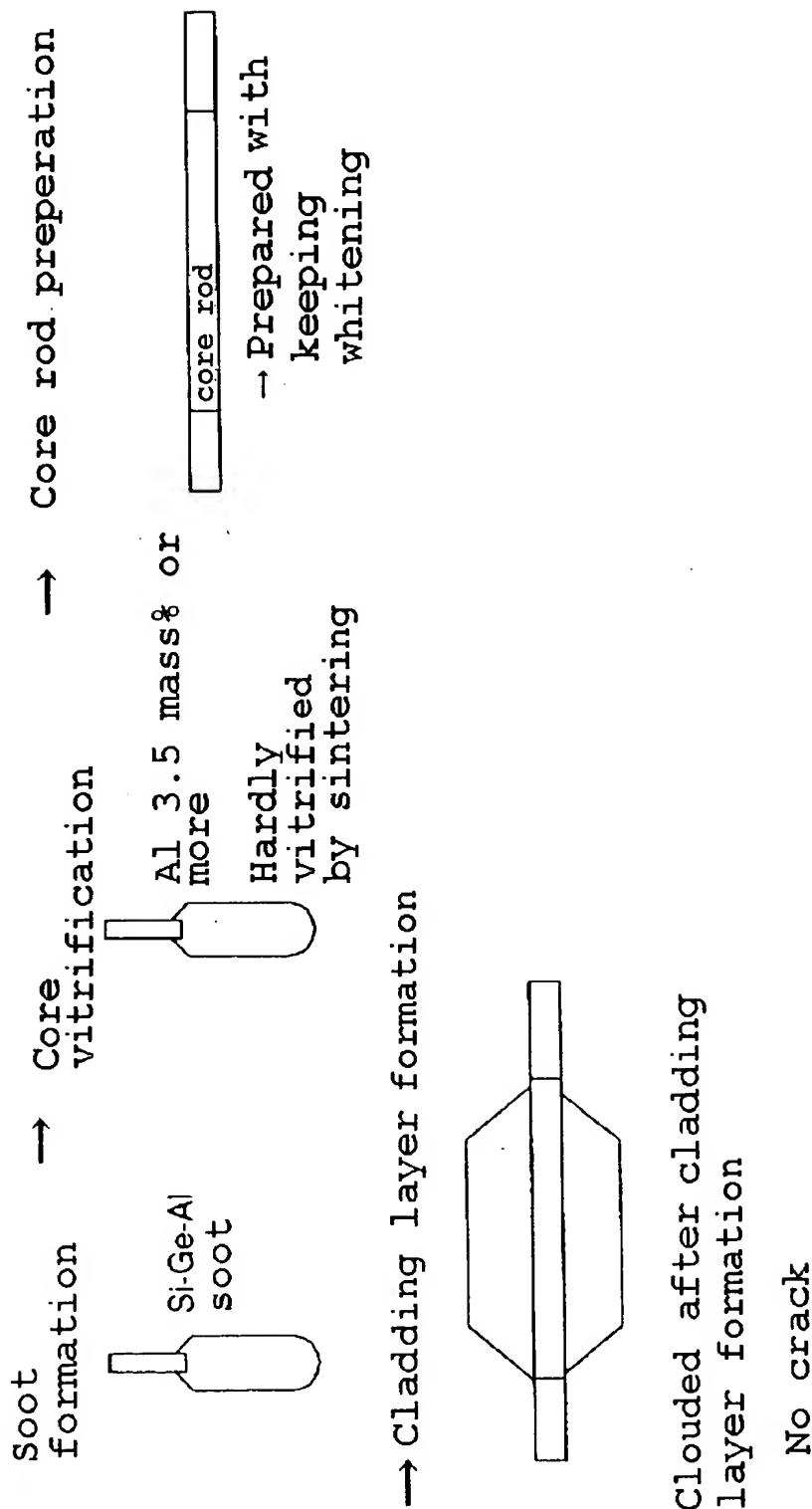
Cladding layer formation



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Fig. 8(c)

At high Al concentration (3.5 mass% or more)
Keeping core to be clouded



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Fig. 9

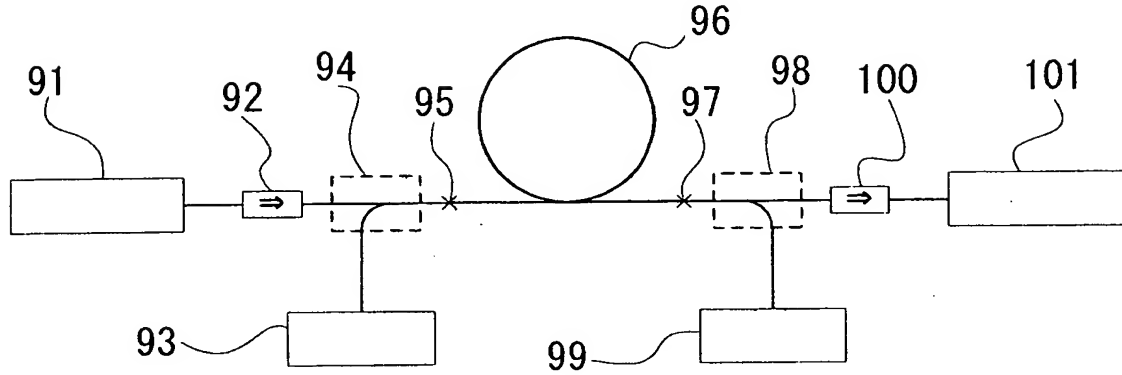
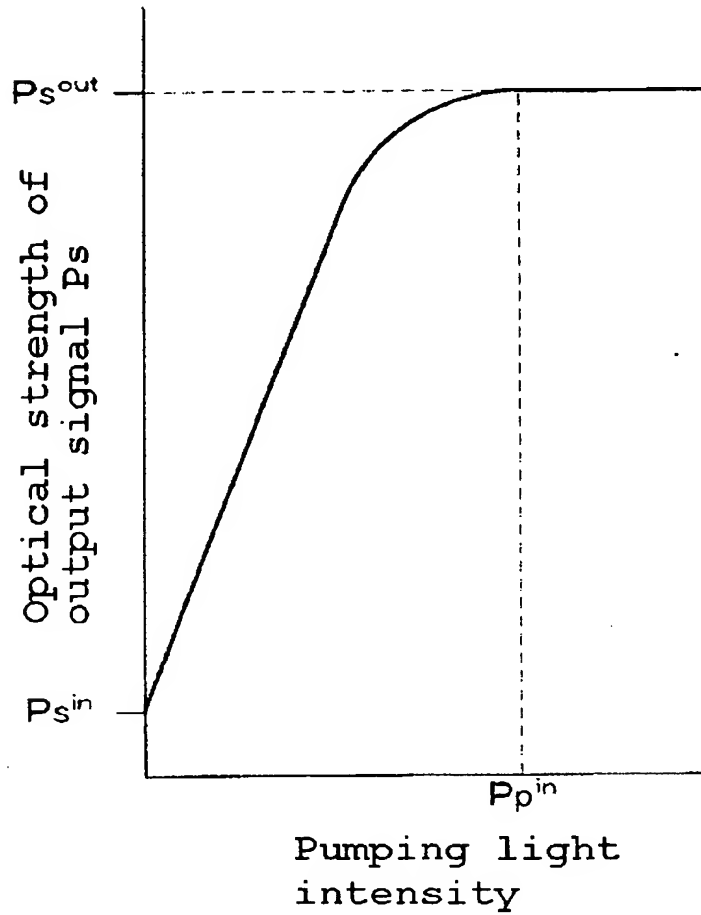
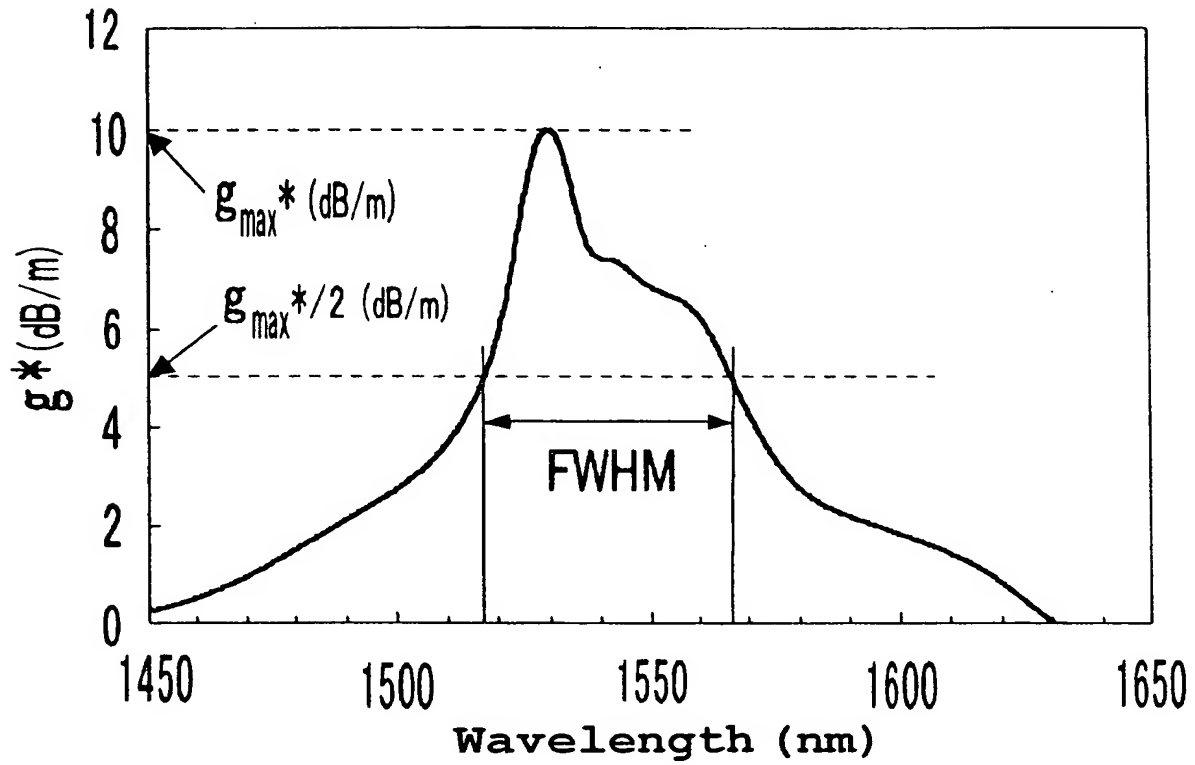


Fig. 10



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Fig. 11



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Fig. 12

